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Client/Matter: 082123-0275721

IN THE ABSTRACT OF THE DISCLOSURE:

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure:

DETECTING AND COMPENSATING DEFECTIVE

PIXELS IN IMAGE SENSOR ON REAL TIME BASIS

ABSTRACT OF THE DISCLOSURE

An apparatus for detecting and compensating defective pixels in a real time by using a two-dimension space filter and characteristics of image data simplifies test processes for an image sensor and enhances yield of the image sensor chip. The apparatus includes: a defect defective pixel detection block for detecting and determining a defective pixel based on a check condition, the condition representing that image data of the defective pixel has a value larger than a first coefficient of the times a maximum image data of adjacent normal pixels or a value smaller than a second coefficient of the times a minimum image data of that adjacent normal pixels; and a defect defective pixel compensation block for compensating the image data of the defective pixel and outputting compensated image data, in response to the image data of a check target pixel, the maximum image data of the adjacent normal pixels, the minimum image data of the adjacent normal pixels, a defective pixel determination signal representing that the target pixel is defective, and a minimum or maximum range violation signal representing that the target pixel is defective, and a minimum or maximum range violation signal representing that the check condition, which are provided thereto from the defective pixel detection block.